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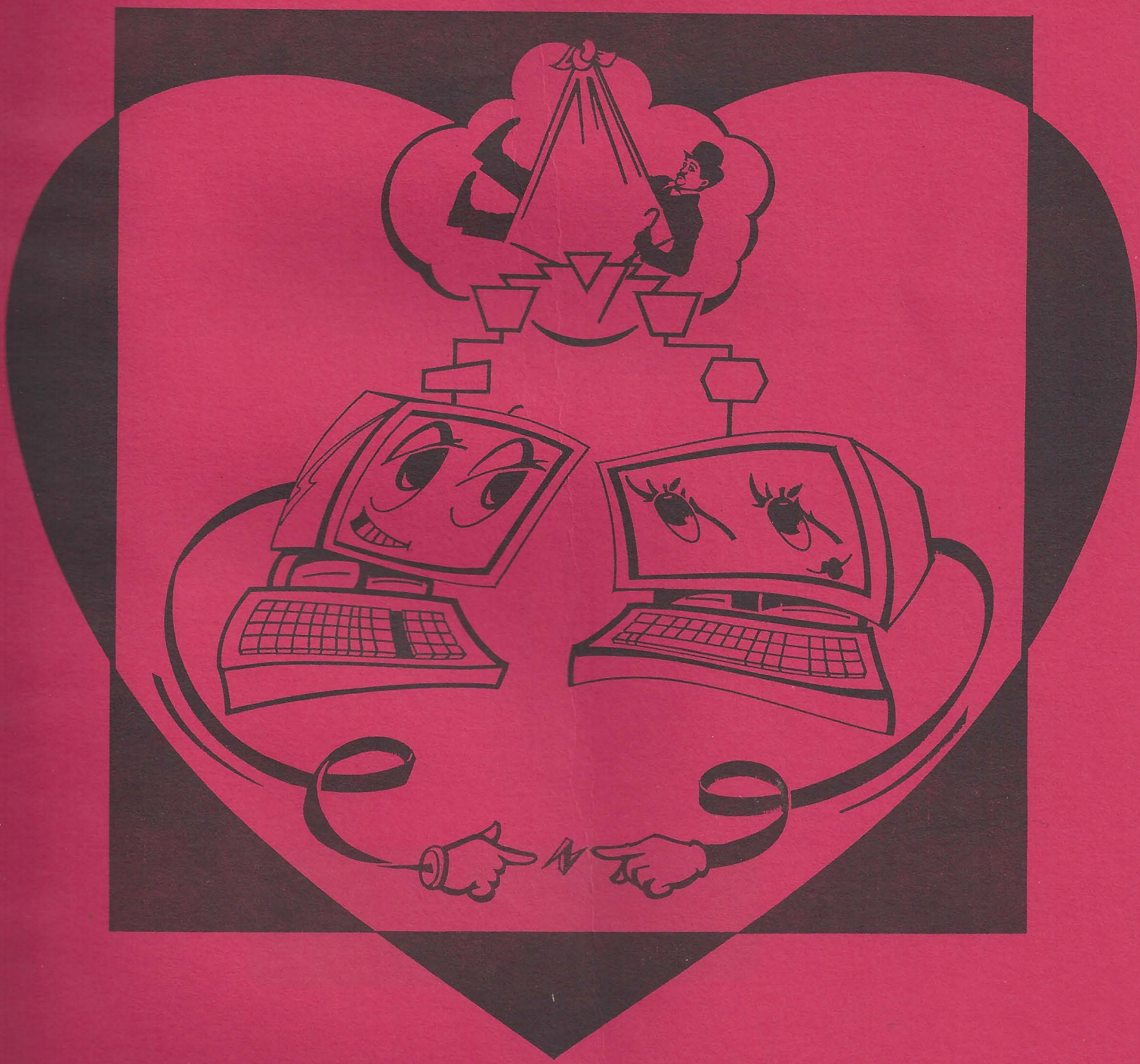
FEBRUARY 1985



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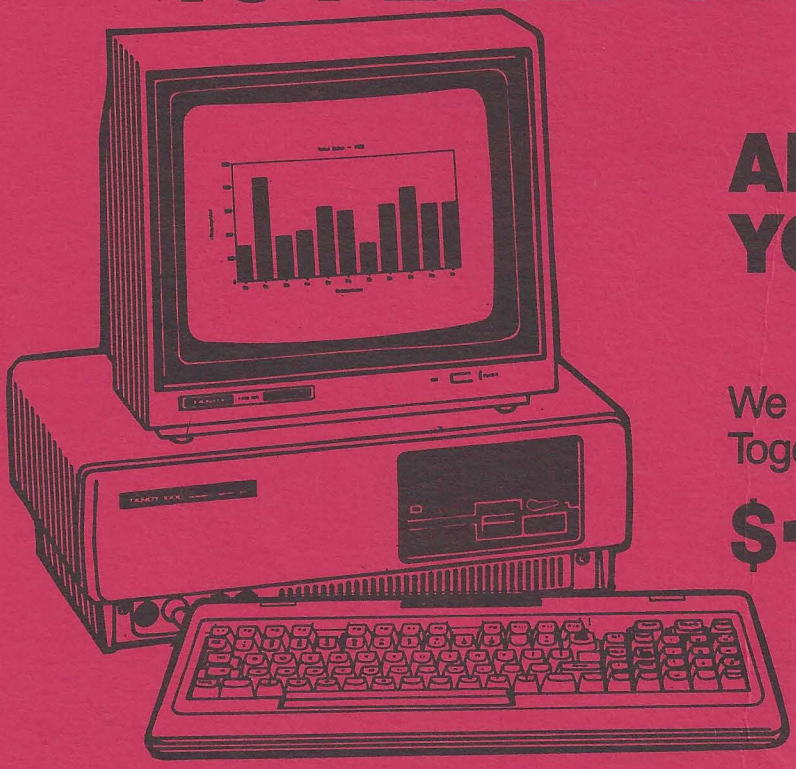

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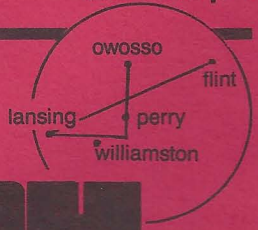

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JANUARY 1985

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20	21	22	23	24	25	26
27	28	29	30	31		

CONSORTIUM CALENDAR

FEBURARY 1985

MARCH 1985

SU	MO	TU	WE	TH	FR	SA
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2 CCUG
3	4	5	6 M3G EXEC	7	8	9
10	11	12 TI USERS GROUP	13 OSBORNE SIG HEATH SIG	14 Valentine's Day LACC	15 ENERGY DEADLINE	16 CHAOS
17 Presidents Day EPSON USERS	18	19 CMTUG	20 Ash Wednesday	21	22	23 APPLE LUG
24	25	26 UPCO (IBM PC)	27 M3G	28 CP/M SIG		

LANSING AREA COMPUTER CLUBS

Apple LUG (Lansing Users Group)
Meets: Last Saturday (1 week earlier in Nov.) 10:00 am
Lansing Public Library, 401 S. Capitol
Contact: P.O. Box 27144, Lansing, MI 48910

CCUG (Greater Lansing Color Computer Users Group) (MC2)
Meets: First Saturday, 1:00 P.M.
Next meeting Dec. 8
East Lansing Public Library, 950 Abbott, E.L.
Contact: P.O. Box 14114, Lansing, MI 48901
Terry Feichtenbiner 371-1594

CHAOS (Capitol Hill Atari Owners Society) (MC2)
Meets: Third Saturday 9:00 AM
Foster Community Center, 200 N. Foster, Lansing
Contact: Leo Sell 393-7792

Epson Users Group
Meets: Third Monday, 7:00 pm
Computer Source West, 422 Elmwood, Lansing
Contact: Ted Bozarth 332-3710 (after 8 PM)
or on Datamatrix BBS 332-3812

LACC (Lansing Area Commodore Club)
Meets: Second Thursday, 7:30 PM
All Saints Episcopal Church
800 Abbott, East Lansing
Contact: Jae Walker (president) 351-7061

M3G (Mid-Michigan Microcomputer Group) (MC2)
Meets: Third Thursday (usually), 7:30 PM
East Lansing Public Library, 950 Abbott, E.L.
Contact: Dave Chun 394-6318
Executive Meetings:
First Thursday, 7:30 PM
Beggar's Banquet, 218 Abbott, East Lansing

M3G CMTUG (Central Mich. TRS-80 Users Group) SIG (MC2)
Meets: Third Tuesday, 7:30 PM
Foster Community Center, 200 N. Foster, Lansing
Contact: Bill Torrence 393-9173

M3G CP/M SIG (MC2)
Meets: Last Thursday, 7:30 PM
Foster Community Center, 200 N. Foster, Lansing
Contact: Greg Martin 484-5850

M3G Heath/Zenith SIG (MC2)
Meets: 2nd Wednesday, 7:30 pm
All Saints Episcopal Church
800 Abbott, East Lansing
Contact: Bill Goodwin 349-9657

M3G Osborne SIG (MC2)
Meets: 2nd Wednesday, 7:30 pm
East Lansing Public Library, 950 Abbott, E.L.
Contact: Jim Pease 332-8746

TI Users Group
Meets: 2nd Tuesday, 7:00 pm
River Front Community Bldg.
501 N. Cedar St., Lansing
Contact: Steve Bennett 394-1439, Larry Reed 645-2686

U.P.C.O. (Users' Personal Computer Organization--IBM PC group)
Meets: 4th Tuesday, 7:30 PM
Rm. 118, Agricultural Engineering Bldg., MSU
Contact: Skip Osterhus 321-3425

Clubs designated (MC2) are members of the Michigan Computer Consortium.

This listing is as accurate as the information we receive. To list an event or update information, contact Joe Werner at 337-7415 (evenings).

ABOUT ENERGY

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Subscriptions to ENERGY are provided as a benefit of membership in one of the clubs constituting the Consortium. Subscriptions are not otherwise sold. For information about joining one of the clubs in the Consortium, write the club at the address above.

ABOUT THE MICHIGAN COMPUTER CONSORTIUM

The Michigan Computer Consortium (MC2) was formed in 1983 to sponsor joint activities involving member computer clubs. Current members of MC2 are:

CCUG (Greater Lansing Color Computer Users Group)
CHAOS (Capitol Hill Atari Owners Society)
CMTUG (Central Michigan TRS-80 Users Group)
M3G (Mid-Michigan Microcomputer Group)

Information about each of these clubs is published elsewhere in ENERGY.

EDITORIAL BOARD

Dennis Cullinan	(CMTIG)	372-6590
Terry Feichtenbiner	(CoCo)	371-1594
Mike Aldrich	(CHAOS)	394-2412
Rob Peck	(CHAOS)	887-0327
Joe Werner	(M3G)	337-7415

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Advertising in *ENERGY* is an economical way to promote your products or services to a key audience involved in personal computing. Four sizes of ads are available: business card, quarter-page, half-page, and full-page. Advertising space is limited and controlled, so that ads will never get "lost". Camera-ready copy is needed by the 15th of the month preceding publication. Limited graphics artwork is available at an extra charge. For more information, contact the Editor.

ARTICLE SUBMISSIONS

Persons wishing to submit articles are encouraged to do so. Articles may be submitted via CompuNet or in camera-ready form (3.5 inch columns, 16 characters per inch, 8 lines per inch), or on disk. Contact any Editorial Board member. The deadline for articles is the 15th of the month preceding publication.

ENERGY = MC²...THE MICHIGAN COMPUTER CONSORTIUM MAGAZINE

TABLE OF CONTENTS

Clubs data.....3
Energy Info.....4
M3G Section.....5
Heath/Zenith SIG Section.....7
CHAOS Section.....10
CCUG Section.....9
CMTUG Section.....8

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If a store doesn't advertise here, then let them know you would like to see their ad in *Energy*. Many dealers need to understand how many bonafide users read *Energy* regularly.

Kudos for Kelly

by Frank Dolinar

The micro-computer marketplace is a jungle. There are computer, peripheral, software package, and supply options galore to choose from. Anyone who reads the literature finds that everyone s hyping a product that's better than the competition and just as good as the known pacemaker. (As an example, look at all the modem ads that compare against the Hayes Smartmodem. Guess which one is the best buy for your hard earned cash.)

With all that going on in the marketplace, how do you differentiate enough to make a decision when purchasing your own gear. I think the deciding factor is quality of service. Unfortunately, you can't evaluate the service until after you've received it, or until you get the word-of-mouth about good or bad service from another source.

Let me be "another source" with some good news. About six-weeks ago I bought a Leading Edge system from Bill Kelly at the Computer Shop in Eaton Rapids. I had the machine for about a week when the keyboard seriously malfunctioned. I called Bill immediately and described the problem. He called Leading Edge and got back to me within half an hour. My keyboard was not repairable by Bill, but he'd made arrangements to have a new one sent out as a replacement.

I was back up and running within two days. No charge. That's service! My thanks to Bill Kelly. If you're looking for some good, old fashioned service, from a knowledgable source, and don t mind a short drive, try Bill Kelly at the Computer Shop in Eaton Rapids. And, tell him I sent you.

VIEW FROM THE TOP

by David T.W. Chun
President, M^{3}G

Elections were held at the last meeting. But before I relieve your curiosity, I would like to extend the thanks of the membership of M^{3}G to the past officers: Vice-President Lee Hodges (who has reluctantly not run for office due to commitments to the recently reformed CMTUG as a special interest group, CMTIG--congratulations Lee); Secretary Cheryl Tirone; and Treasurer Lynn Wardwell. Special appreciation goes out to Lynn who has been Treasurer for ??? years. Now that I think of it, Lynn has been the Treasurer even before I joined M^{3}G--and that goes back about 5 years.

The new roster includes yours truly as President, Warren Wolfe as Vice-President, Dean Shipman as Secretary, and Joe Werner as Treasurer. Warren, a frequent speaker at our meetings (Warren we need some one for March!) comes to us with an impressive set of credentials as a former president of our CP/M-SIG. Look out Warren, I really do intend to leave. Dean represents our yearly infusion of new blood. Welcome aboard Dean. See you at the executive meeting 1st Thursday of each month. Joe is an old timer to the group and I'm sure our treasury is in good hands. Don't forget dues are due--see Joe.

Our February meeting which is held on the 27th (a Wednesday) is on something called USENIX & UNIFORUM. Greg Martin will explain it all. You know Greg. He's the guy that runs that little computer store called COMPUTER OPTIONS in some town called Charlotte. He also heads our CP/M SIG. In true tradition, the topic of his talk is not on CP/M but on UNIX. Apparently there is an annual meeting of UNIX users and Greg was there last year. Greg will tell all.

Our March meeting on the 21st returns us to the third Thursday of the month. The reason I bring this up so early is that we have an open slot for a speaker. Volunteers can call me or Warren. First person with the most interesting topic gets the slot. Second person with an interesting topic gets bumped to April.

THE USER

by
Joe Werner

One of the "joys" (which is to say, problems) of writing an article for publication is the lead time required. In the big magazines, this is typically three to six months. Even in ENERGY, this is two weeks to a month. This is especially frustrating when I get a good idea for a time-relevant article, and then realize that the time worthy of note will have passed by the time you read it.

But, I'm going to press on regardless, asking that you remember that I'm writing this in early January, even though you're reading this in February or later. For you see, January 1985 marked an anniversary which should not pass unheralded: the real start of the personal/hobby computer industry happened ten years ago this month.

The cover of the January 1975 issue of Popular Electronics (which has since changed its name to Computers and Electronics), announced (indeed screamed) a "Project Breakthrough! ... World's First Minicomputer Kit to rival Commercial Models..." This was the Altair 8800, which was offered to PopTronics readers for $397 in kit form. The Altair 8800 used an Intel 8080 processor, which was selling at the time for $360 in quantity-one pricing, and came complete with a cabinet, power supply, front panel including lights and switches, and "motherboard". It was produced by a company called MITS, out of Albuquerque, New Mexico, and was principally the brainchild of Ed Roberts.

There had been other computers before the Altair. Don Lancaster had written about a "TV Typewriter" (a primitive terminal) for the cover of the April 1974 issue of PopTronics. And Jonathan Titus published plans for his Intel 8008 based Mark 8 computer in rival magazine Radio-Electronics in July, 1974. But the TV Typewriter was just a terminal, and the Mark 8 was just plans. (You could order the PC boards for the Mark 8 already laid out and etched, but you still had to locate and buy the parts and assemble the machine.) And additionally, let's not overlook Nat Wadsworth, whose Scelbi-8H, also based on the Intel 8008, was first advertised in the March 1974 issue of QST, a ham radio publication from the ARRL.

Truly, however, the Altair was the first computer the hobbyist could buy as a complete kit or assembled unit. I don't think that editor Art Salsberg was aware of the magnitude of this, even though his editorial in the January issue of PopTronics proclaimed "The Home Computer is Here!".

Neither, in truth, was MITS aware of the magnitude of pent-up demand for hobby computing. After the article appeared, the floodgates opened, threatening to sweep MITS away. The story is told that MITS expected to sell a certain number of Altairs in the first year; they received orders for more than that number of Altairs within the first week! There are many tales of late-arriving orders, bad or no service, and poor quality control which date back to this time.

But MITS gave the industry a good machine. It had an open architecture based on a 100 pin bus architecture which has since become known as the S-100 bus. This allowed a lot of other companies to start up by selling boards to plug into that bus. Additionally, MITS wanted to supply a programming language for its computer that would fit in the small amounts of memory (4K to 8K bytes, typically - 16K bytes was sheer luxury) typically available. So MITS commissioned Bill Gates and Paul Allen to supply a BASIC interpreter for the Altair. This was MITS BASIC, and the company that wrote the interpreter would go on to become Microsoft.

And there would be many computers after the Altair. The flood of new products has not shown signs of stopping, or even slowing down. But in a real sense, it all started in a garage in Albuquerque, ten years ago this January.

Two recent issues of magazines have carried interesting articles about all of these developments. The first of these was the Tenth Anniversary issue of Creative Computing, the November 1984 issue. The other was the January 1985 issue of Computers and Electronics. Both are worth looking up.

Incidentally, the Creative issue mentioned above lists a chronology of the Personal Computer. Here are some of the events of note that happened ten years ago, excerpted from Creative Computing:

The Altair 8800 Kit was featured in Popular Electronics cover story.

Cromemco was founded, introduced a PROM programming board for the Altair bus.

Processor Technology was founded, and introduced a video display board for the Altair bus.

Polymorphics was founded, introduced an A/D board.

Wavemate was founded, and introduced the Jupiter II.

IMSAI was founded, and introduced the IMSAI 8080, an Altair work-alike.

Sphere was founded, and introduced a line of 6800-based computers.

Southwest Technical Products introduced a 6800-based computer built around a bus called the SS-50 bus.

Bill Gates and Paul Allen write BASIC for the Altair.

First computer clubs founded, including Homebrew in San Francisco, SCCS in Los Angeles, and ACGNJ in New Jersey. [Although we didn't make Creative Computing, Mid Michigan Microcomputing Group - M3G - was also founded in 1975, making us one of the oldest clubs in the country. -JWW]

Dick Heiser opened first retail computer store in Santa Monica.

Paul Terrell opened first Byte Shop in Mountain View.

Wayne Green published the first issue of Byte.

Adam Osborne published An Introduction to Microcomputers.

So Happy Anniversary to all of us. Let's salute the successes of ten years ago that give us so much to look forward to in 1985!

H/Z SIG NEWS

by Bill Goodwin

Is Zenith the number two clone maker? PC WEEK, a weekly IBM-oriented paper, says, in its rumor column, that with the decline of many PC-compatible manufacturers Zenith is now second only to Compaq. In addition, they refer to a Zenith 80286-based AT compatible. I assume that this is actually a new CPU card for the Z-150. If so, then Zenith's method of PC-clone construction will be shown as THE way to keep up with IBM while copying them.

Assuming, of course, that one really WANTS to copy IBM!

PC WEEK also said that Zenith's lap-top model will be out before IBM's machine gets out. I understand that it is being made for Zenith by a Japanese company with software by Microsoft.

I am writing this in the middle of January and at this time there is still no word about the D.E.L. PC emulator board. I would like to have more than just rumors about this board. It sounds like something I would like to have but I don't know the price! I just hope it comes in at a price I can afford. Then again, maybe there will be a software solution. Recently I was looking at the CP/M-86 message area on Compuserve's CPM-SIG. There was a brief description of something called 286-Concurrent DOS. It appeared to be a version of Concurrent DOS that ran on the 286 and would handle all PC programs including re-mapping I/O to operate on the hardware you have. Buying a new CPU card and DOS may be better than buying an emulator. (AND DOS!!) Only time will tell.

I saw another great toy today! It was shown on NEW TECH TIMES (Sat.,12 noon, ch.23) this morning. A computer, laser disk, display, and transciever are combined to form a position locating system for autos. The system uses new NASA navagation satellites for the info needed to determine the car's location. The laser disk holds maps of the entire country and the display combines the maps and an indicator for the vehicle to show where you are. Apparently, the resolution is good enough to show individual streets in urban areas. You say that sounds great but who could afford it? The model they were showing was from Chrysler. The price they gave for it was $500. If that price level holds and other auto companies offer them, I'll have to have one in my next car!!

We still need a new chairman for the SIG. I have started teaching parttime at LCC two nights a week and am considering something that will occupy at least one more night per week. I just can't do it anymore.

The February meeting will be on the 13th.

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NOTES FROM THE TRS SIG

The first meeting of the TRS sig was held at Foster Community Center on Jan. 15. In all, 18 people were present. A comparison of the old CMTUG membership list indicated that we had 4 currently registered members of that group who attended, thank you for your support of the new group. This left 14 attendees who are new to our clubs and as it turns out new to Radio Shack computers also.(Thank you Dan Poorman for the mention in the State Journal) The meeting was very interesting to me because it reminded me of the earlier M3G meetings where everyone one had questions and those of us who thought we could tried to answer the them. The membership then talked about possible program topics for our next meetings. If you are interested in Radio Shack Computers or would like to help a new sig get started our meetings are the Third Tuesday of every month starting at 7:30 at Foster Community Center in room 109.

Sig Chairman, Lee A. Hodges

[illegible]

By Terry Fruchtenbiner
CCUG President

The January Greater Lansing Color Computer Users Group meeting featured a demonstration by Bud Park of the TOM MIX FLIGHT SIMULATOR and an EPROM Programmer marketed by Green Mountain Micro. The flight simulator draw some and asks for realism and it's LOGICAL ease of operation. The EPROM programmer hardware offers programmers the opportunity to save their completed code on an almost-indestructable Read Only Memory chip (much like your Color Computer BASIC).

The MLSIG (machine language special interest group) and OS-9SIG (for OS-9 operating system users) have had their first meetings for this Winter. These are primarially learning groups and they are great for beginners. See Randy King or Greg Miller for more information.

Any of our members can start a special interest group. SIG suggestions might include a BASIC or FORTH language group, a games SIG, or maybe re-living our hardware hackers group. You don't have to be an expert, all that is necessary is the interest and a little time.

Speaking of time, my next major project is to learn the PASCAL language. I've had an excuse to put it off for a long time because I couldn't justify the cost. Now DEFT SYSTEMS has dropped their PASCAL price considerably. Radio Shack is supposed to be handling the package as a special order. If/When I make any progress with it, I'll do a review.

I'm also working on a couple of CCUG members for contributions. Look for a FORTHwith (FORTH) overview and a TELETERM discussion by their authors in a future issue.

Are you changing your address soon? Be sure to keep your club treasurer informed so that you can continue to get your monthly ENERGY. The Post Office will not forward bulk mail

Check the ENERGY calendar for the next meeting date. Guests are always welcome.

A Look at the Color Graphics Printer

By John Evans

The CGP-115 by Radio Shack is a unique printer overlooked by many. It is a four color plotter-printer in a compact 8 1/2" square package. The RS part number is 26-1192 and the retail price is $199.95. Past sales dipped as low as $119.95 so shop around!

Besides the Centronics parallel port, it has an RS-232 serial port meant just for the Color Computer. The serial port operates at 600 baud with 7 bit characters, no parity, and two stop bits.

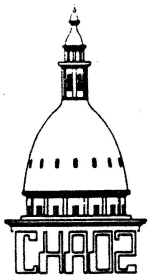
Most of the programming control consists of 13 commands for BASIC and 7 ASCII control characters. Of the BASIC commands, the "line type" allows for an interesting definition of a line for the printer to draw. The line type may be from a solid line to a dotted line to a variety of dashed lines with a simple command such as: PRINT#-2, "L5". The L is the command and the number (from 0 to 15) is the specific line desired. Among the ASCII controls is CHR$(11) which provides for a reverse line feed-a necessity when drawing graphs.

Ball point pen cartridges provide the four colors in black, blue, red, and green on 4 1/2 inch wide roll paper. Replacement pens are grouped into three cartridges per package of either all black pens or one each in red, blue, and green.

The printer can print text or graphics. Text is the default mode at power-up. With the text mode, the characters per line is manually set by DIP switch #2 (located on the back) to either 40 characters per line or 80 characters per line. The graphic mode is much more versatile. Your own text character set, graphs, charts, and drawing graphics are among the uses while in graphic mode.

The 45 page manual is well written. Subjects covered are: description of the printer with drawings, setting up the printer for use, explanation of the control codes/graphic commands, maintenance, specifications, and appendixes A through D (sample programs, ASCII character set, etc.). I did find some of the sample programs to be flawed.

The weaknesses of the Color Graphics Printer model 115 are the slow speed (12 chrs. per second in text mode), use of narrow roll paper, and a greater reserve of ink should be in the pen cartridges. The strengths include the compact size, the protection used to keep the pens from writing onto the platen, the commands, a .2 millimeter resolution, quiet operation and more. Brother brand of typewriters has an electronic typewriter out that closely resembles an enlarged version of the CGP-115!



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CAPITOL HILL ATARI OWNERS' SOCIETY

C.H.A.O.S IS:

C.H.A.O.S is the Capitol Hill Atari Owners Society. CHAOS meets every third Saturday in the Foster Community Center (200 N. Foster). The meetings run from 9am-12 noon. The presentations at meetings include new hardware and software and news. Business is limited at general meetings to make the meetings more enjoyable.

C.H.A.O.S MEETINGS ARE:

FUN, EXCITING, INFORMATIVE, AND CHAOTIC

You will have to see a CHAOS meeting to believe it. The discussions are lively, with lots of news and information. The presentations are of general interest. The speakers arrange their presentations to be understood by the beginners in the group as well as the experts.

The presentations at any meeting may include wordprocessors, games, databases, educational applications, utilities, hardware, and hardware modifications and enhancements.

There are experts and beginners in CHAOS and there are Special Interest Groups periodically when interests arise.

C.H.A.O.S. IS YOUR BEST COMPUTER PERIPHERAL

In addition to receiving a monthly newsletter that will keep you informed of local, national, and international events in computers, you will have access to the largest Atari public domain library of programs in the world. C.H.A.O.S. HAS OVER 600 PROGRAMS IN ITS LIBRARY.

The CHAOS library is growing every day. This can save you a great deal of time and money. Programs that you write can be added to the CHAOS library. If you would like a listing of the programs in our current library, please send a large self-addressed, stamped envelope. Include an extra 50 cents if you are not a CHAOS member to cover printing costs. Mail your request to CHAOS, P.O. Box 16132, Lansing, Mich 48901.

C.H.A.O.S. RUNS A BULLETIN BOARD SYSTEM

CHAOS runs a Bulletin Board System that you can dial into if you own a modem. The telephone number for the BBS is 517-627-4243. CHAOS's BBS is one of the most sophisticated systems in existence. It provides a means of leaving messages for other computer owners and a means of obtaining FREE software. Join CHAOS now and get your password right away.

C.H.A.O.S. PUBLICATIONS LIBRARY

CHAOS has many books and other publications about the Atari computers that can be checked out by members. Each month CHAOS receives newsletters from other Atari clubs from around the world.

HOW TO JOIN C.H.A.O.S.

If you would like to join CHAOS then fill out a membership form or send your Name, Address and $12.00 (Yearly membership fee) to:

CHAOS
ATTN: MEMBERSHIP
P.O. BOX 16132
LANSING, MICHIGAN
48901

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Position	Name	Phone#
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Vice president:	Lance Ward	393-1357
Treasurer:	Rob Peck	887-0327
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Pub. Librarian:	Mike Aldrich	394-2412
Rec. Secretary:	Sandy Theisen	882-0124
Cor. Secretary:	Dick Peterson	485-7727
Program Coordinator:	Diane Genshaw	355-8229
BBS Sysops:	Barry Schroder	627-6708
" "	Mike Cl[illegible]	627-7807
BBS Librarian	John Nagy	487-5646

C.H.A.O.S. NEWSLETTER EXCHANGE

If your Atari users group would like to exchange newsletters with CHAOS **PLEASE** send your newsletter to the following address:

C.H.A.O.S.
ATTENTION: NEWSLETTER EXCHANGE
P.O. BOX 16132
LANSING, MICHIGAN
48901

Please update you current list of CHAOS addresses, officers, and BBS number with the previous information.

MUSINGS...
by Leo Sell

WOW!!!!!!!!!!!!!!!!!!!!!

Can you believe the good news from CES. If much of it is true and if they actually produce them, the new moodels should be hitting the stores by March 1 or so. Looking at the specs and the pictures it seems to me Atari has some real WINNERS on its hands.

I'M EXCITED!!!!

Lots of new features. Apparently some IBM PC compatibility and it sounds like a programmers dream. If people take them seriously I think the new ST machines will really be the computer of choice.

Look out APPLE!!

The new INFINITY software is another winner. Imagine, on one disk: a spreadsheet, relational database, a word processor (similar to MacWrite, a telecommunications package and other goodies.

So how do the announcements compare with the rumors? Let's see. A suitcase portable was rumored and shown (800 XL compatible.) They also showed the 65XE as the replacement (compatible) for the 800 XL and the 800 XL compatible 130 XE with 128K of RAM. The new 16 bit computers were rumored to range from 128K to 512K and they do. In addition they are based on the Motorola 68000 CPU and its memory is nothing short of incredible. 192K ROM expandable to 320K (in addition to the 512K RAM available.) The rumored 400x600 resolution is true but so far the rumored 8 channel sound is incorrect. The 10 Megabyte hard disk is still a rumor. It was announced but will not be shown until June CES. Tramiel says the price will be less than $600. They did show a 500K 3.5 inch floppy disk drive. Finally, the new ST machines will have some MSDOS and PCDOS compatibility and 512 colors available. Like I said, **WOW!!!**

Atari also showed some nice monitors and printers that will be marketed for all personal computers.

Check out the new Atari magazine called ATARI EXPLORER. It is a very nice product. If it is a reflection of the "new" Atari I am quite pleased.

Have you sent in your survey????

Again my apologies for the printer fiasco at the January meeting. We'll try again in February.

PRESIDENT'S CORNER
by Leo Sell

After all the good news from CES I feel absolutely elated. I am feeling good about Atari and about CHAOS. I'm getting a handle on things and I feel good about where the club is headed. How do you feel? Any suggestions or criticisms? Let me know, on the CHAOS BBS or call me at home evenings.

We have elections coming up in March. If you are interested in serving your club let one of the present Board members know. In addition to Board positions there are several appointed offices in need of filling either now or after the election including: equipment coordinator, Program coordinator, membership coordinator and advertising manager. Please see me if you are willing to help. Without your involvement CHAOS cannot continue.

At the end of this column is the new CHAOS Library Order Form. As of the January 19 meeting no orders for software will be accepted without a fully completed order form. Please be sure you fill it out completely as the Librarians cannot be expected to finish the form as well as fulfill your order. As you can see you need to indicate not only which disks you are ordering, but also the number of CHAOS blank disks that will be used to fill your order. The top half of the form is for standard CHAOS disks. Anything special such as SCOPY or the ANALOG disks must be ordered on the lower half. By the way, if you wonder about my reference to the ANALOG disks, read on.

We have ordered a disk subscription for the club from ANALOG magazine. If ANALOG grants us their permission, we will offer the monthly disks in whole as part of the CHAOS library. These will be considered special disks. You will not have the option of providing you own disk and the charge will be $6.00 per disk. We hope that enough people will feel it's worth $6.00 per month not to have to key in the programs. ANALOG always has some fine programs and it will be worth your money. If the trial is successful and if you show interest we will add a disk subscription to ANTIC as well. Let the Board members know if you want this option expanded or continued.

CHAOS Library Order Form

NAME: _____
Phone: _____

CHAOS Library disks	copy
1._____	___
2._____	___
3._____	___
4._____	___
5._____	___

Number of CHAOS disks ordered:____@ $2.00= $
CHAOS blank disks used: ____@ $2.00= $____
$
Less copy credits used: ____@ $2.00= -$____
Total due for CHAOS disks: $

Special disks(Analog,etc)	Cost	copy
1._____	$____	___
2._____	____	___
3._____	____	___
4._____	____	___
5._____	____	___

Subtotal: $
Total for special disks $_____
Total due for order: $
Date delivered: __/__/__

CUSTOM CARTRIDGES — Continued!!

I'll bet you wondered what happened to Program 1 and Program 2 last month. Well, here they are!

PROGRAM 1

```
100 ? :? "Initializing.":DIM CIO$(34):S=0:FOR I=1 TO 34:RE
AD D:S=S+D:CIO$(I)=CHR$(D):NEXT I
110 IF S<>3345 THEN ? "ERROR IN CIO$ DATA":END
120 DATA 104,162,16,104,104,157,66,3,104,157,69,3,104,157,
68,3,104
130 DATA 157,73,3,104,157,72,3,32,86,228,132,212,160,0,132
,213,96
140 OPN=3:CGET=7:CPUT=11
150 REM CALL COMMAND: Y=USR(ADR(CIO$),CMD,BUFAD,BUFLN)
160 DIM LDR$(153):S=0:FOR I=1 TO 153:READ D:S=S+D:LDR$(I)=
CHR$(D):NEXT I
170 IF S<>22391 THEN ? "ERROR IN LDR$ DATA":END
180 DATA 173,246,191,133,128,173,247,191,133,129,169,242,1
41,224,2,169,191,141,225,2,160,0
190 DATA 169,242,141,226,2,169,191,141,227,2,32,198,191,13
3,130,32,198,191,133,131,201,255
200 DATA 208,4,197,130,240,238,32,198,191,133,132,32,198,1
91,133,133,32,198,191,145,130,165
210 DATA 130,197,132,208,6,165,131,197,133,240,9,230,130,2
08,235,230,131,76,163,191,32,195
220 DATA 191,76,125,191,108,226,2,165,128,201,252,208,8,16
5,129,201,159,208,2,230,128,165
230 DATA 128,205,248,191,208,15,165,129,205,249,191,208,8,
104,104,32,243,191,108,10,0,177
240 DATA 128,230,128,208,2,230,129,96,108,224,2,0,128,103,
191,103,191,0,5,242,191
250 DIM FN$(20),X$(40),SPC$(8190),BUF$(16230)
260 ? :? "Insert the disk and enter the":? "device:filenam
e of the object file."
270 POKE 764,255:INPUT FN$
280 OPEN #1,4,0,FN$
290 Y=USR(ADR(CIO$),CGET,ADR(BUF$),16230):IF Y=1 THEN ? "E
RROR- ";FN$;" is too long.":END
300 IF Y<>136 AND Y<>3 THEN ? "ERROR # ";Y;" in reading ";
FN$:END
310 SA=48999-PEEK(856)-256*PEEK(857):IF SA<=40956 THEN SA=
SA-1
320 CLOSE #1:I=INT(SA/256):POKE ADR(LDR$)+143,SA-256*I:POK
E ADR(LDR$)+144,I
330 ? :? "The cartridge program is ";(49152-SA)/1024:"K":?
 "bytes long. What size EPROM are you"
340 ? "using (4 or 8 K bytes)";:POKE 764,255:INPUT X$:K=VA
L(X$)
350 IF K<>4 AND K<>8 THEN ? CHR$(28);:GOTO 340
360 SK=K*INT(SA/1024/K):? :? "You'll need ";(48-SK)/K;" of
 them."
370 ? :? "Insert the disk and enter the":? "device:filenam
e (without extender) of":? "the EPROM data files."
380 POKE 764,255:INPUT X$:FOR I=1 TO LEN(X$):IF X$(I,I)=".
" THEN POP :? CHR$(28);:GOTO 380
390 NEXT I:X$(LEN(X$)+1)=".":FN$=X$:AD=ADR(BUF$)-(SA-1024*
SK)
400 FOR P=SK TO 47 STEP K:I=48+INT(P/4)+7*(P>=40):FN$(LEN(
X$)+1)=CHR$(I)
410 IF K=8 THEN FN$(LEN(X$)+2)=CHR$(I+1)
420 OPEN #1,8,0,FN$:? :? "Writing ";FN$
430 PUT #1,255:PUT #1,255:PUT #1,0:PUT #1,P*4:PUT #1,255:P
UT #1,(P+K)*4-1
440 BL=1024*K:IF P+K=40 THEN BL=BL-4
445 IF P+K=48 THEN BL=BL-153
450 Y=USR(ADR(CIO$),CPUT,AD,BL):IF Y>1 THEN 480
460 IF P+K=40 THEN PUT #1,255:Y=USR(ADR(CIO$),CPUT,AD+BL,3
):AD=AD-1:IF Y>1 THEN 480
465 IF P+K=48 THEN Y=USR(ADR(CIO$),CPUT,ADR(LDR$),153):IF
Y>1 THEN 480
470 CLOSE #1:AD=AD+1024*K:NEXT P:? :? "Done.":END
480 ? "ERROR # ";Y;" in writing ";FN$:END
```

PROGRAM 2

```
10 DIM FN$(20)
20 ? :? "Enter the device:filename for the     version com
piled at 1F00."
30 INPUT FN$:OPEN #1,4,0,FN$
40 ? :? "Enter the device:filename for the     version com
piled at 2600."
50 INPUT FN$:OPEN #2,4,0,FN$
60 ? :? "Enter the device:filename for the     version to
be compiled at 0700."
70 INPUT FN$:OPEN #3,8,0,FN$:TRAP 100
80 GET #1,X:GET #2,Y:IF X<>Y THEN X=X-24
90 PUT #3,X:GOTO 80
100 IF PEEK(195)<>136 THEN ? "ERROR-   ";PEEK(195);" AT LI
NE ";PEEK(186)+256*PEEK(187)
```

Do It to the Macs
by Greg Barr

Now that Atari has introduced the "Jackintosh" line of computers, perhaps our friends over at Apple will appreciate some program names of Macintosh software that was not released during the "Great Macintosh Software Famine". We who are about to suffer our own famine salute you!

MacDuff--Software for people who like to sit on their tails while the computer does all the work.

MacNamara--Unlike the more common "windowing" software, this operating system builds electronic walls to keep subversive data out of your program area.

MacCarthy--several versions:

V1.0--"Joe" works with MacNamara to find subversive data within your program area and add it to a "blacklist" for deletion. Runs only on the far right of your screen. USER WARNING--Joe acts in an irrational manner at times, finding subversives where none exist.

V1.2--"Eugene" runs only on the far left of the screen. Unlike Joe, Eugene does not find subversive data anywhere. USER WARNING--V1.0 and 1.2 are incompatible.

V2.0--"Charlie" works in a foreground/background mode with master controller Bergin who can make other modules appear to be generating useful data without moving his lips.

MacGovern--a module in the Presidential line of software. Unfortunately it runs well only in Massachussetts.

MacEnroe--Software which argues with the Master Control Program whether data is in or out of the window. The new version shows considerable improvement. Last year's Wimbeldon Benchmark ran in 4 hours 45 minutes, this year in just 1 hour 20 minutes.

MacAdamia--This program is not a number cruncher, it is a nut cruncher.

MacAbre--a bit Vincent Pricey for all but the real connoisseur, this game software make Indiana Doom and the Temple of Jonestown look tame. Fortunately Mac graphics are not in color, yet.

MacDonald--Agricultural software, the Old version had only one-bit numeric representetion, thus on your farm you could have only one pig, one cow, one goat, etc. The newer version is, unfortunately non-ASCII, using an almost unknown character representetion scheme known as EIE I/O.

MacCartney--Began as one of four major bugs in an older operating system that set the world on it's ear. Has since grown Wings.

The New Ataris

by Greg Barr

"IBM Is This Price Right? Does Apple Need So Big a Bite? Atari Thinks They're Out of Sight." Signs on a highway near Vegas CES.

Atari may have shown off their much awaited 800 compatible machines at the Las Vegas CES, but to date I have found no mention of those products. Instead the press seems to be reporting exclusively on the "Jackintosh" machines. Here's what I have seen so far, from the Detroit Free Press, Tuesday January 8 1985, Page 7C and The Wall Street Journal, Monday January 7, 1985, page 10.

Names: 130ST, 260ST, 520ST, name based on memory size of 128K, 256K, or 512K. remember 1k=1024 bytes, so these numbers are closer to the objective reality of memory size.

Cost: $399, $499, $599!!!!

Processor: Motorola 68000.

Disk drive: 3 1/2 inch microdrive with 400-800k for $200!!

Winchester disk: possibly 5MB for $200!

Color montior:less than $200.

Mouse: Probably included, or very low cost option.

Operating system: Digital Research's GEM (Graphics Environment Manager--watch for article.) GEM uses icons and pull-down menus just like the Macintosh.

Expected sales: One million in 1985!

Introduction: April

Distributors: K-Mart, Toys-r-us and several similar outlet stores.

Software availability: Immediate, as hardware is already in the hands of the developers, though initially it may be scarce.

Hardware Compatability with Anything in the Known Universe: None. (at least some things never change!)

Software Compatability: Perhaps a lot as GEM runs on AT&T, IBM, Apple, and any MS-DOS system.

Let's see now, it costs $995.00 to upgrade a 128K Macintosh to 512K in Black and White. For the same money you can buy a 520ST, 3 1/2" disk drive, and color monitor.

Hot Dang!!!

By the way, Commodore showed off their new machine, a 128K Commodore 64. whoopee.

ONE-LINERS

by Greg Barr
PO Box 1343
East Lansing, MI 48823

When I suggested this column, I did not expect the roaring silence that followed. The idea behind this column is to publish some compact, powerful programs for the Atari, approximately 100 keystrokes max, one line preferred. If you have any neat tricks, pass them on to me and I'll print them. I have been awfully busy lately myself and can only offer you some interesting Peeks and pokes this month.

Location 82: Left Margin
Normally 2, but POKE 82,0 puts the left margin over to the far left, giving you a 40 column display.

Location 83: right margin
Normally 39, but POKEing this location will change the right margin on the screen.
These are good to know if you are running on an old TV and are missing a couple of columns on the right or left of your display.

Location 755: Character and cursor mode
This location is a lot of fun!
Normally 2, POKEing this location with 0 thru 7 gives you:
0 ... invisible cursor
1 ... a blank where the cursor is
2 ... regular Atari cursor
3 ... a whited out overlay where the cursor is
4,5,6,7 ... the same as above, but the letters are upside down!

SYSTEM RESET will restore your Atari to normal.

Now class try the following: POKE 82,20:POKE 83,20

Thank you,
Greg

* *

CHAOS CLASSIFIED

(Free advertising for members!)

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American Legion in Laingsburg wants to buy a used complete system. If you know of one contact Norm Smith at 651-6842 early or late.

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Giant Slalom-$5.00 (Downhill skiing, on tape)
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ALSO GENERIC ATARI 8000 DISKDRIVES, OTHER ACCESSORIES
Call Bill Mundt evenings at 517-288-6590 OR WEEKENDS

* *

ADVENTURE MASTER

Reviewer: Ralph Fellows
from CBS Software
Retail Price: $35.00

Summary

A good product. Allows you to create your own adventure games, including limited graphics. Some shortcomings and at least one big bug.

Details

ADVENTURE MASTER is not a game; instead, you use it to create your own games. You can modify the three sample adventures that come with the product, or you can start from scratch and make up entirely new ones.

The product contains facilities for handling four kinds of entities: rooms, objects, "words" (actually phrases), and pictures. The complexity of the created adventure is limited to what will fit on one disk; the documentation suggests a maximum of about 50 rooms, 20 objects, 20 phrases, and 10 pictures, with the pictures taking much of the space.

Each room may have connections to as many as 11 different rooms: the eight compass directions, up and down, and a magical passage triggered by a special phrase. One of the 10 physical directions may also be guarded by a special phrase, which the player must type before being allowed to move that way.

Each room has a text description, and may have a picture associated with it. The picture appears every time the player enters the room; he has to type "LOOK" or "L" to get past the picture to the text description.

Each object has an initial text description, which the player reads the first time he encounters the object, and a followup descriptionm, which the player reads when the object is TAKEable. Each object must be guarded with a special phrase, which the player has to type before the object becomes TAKEable.

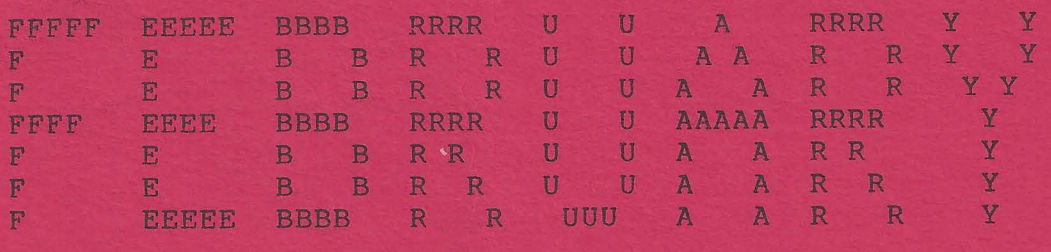
You can assign scoring points: 0 to 9 per room entered, and 0 to 9 per object. Each room scores the same as every other room. Likewise for objects.

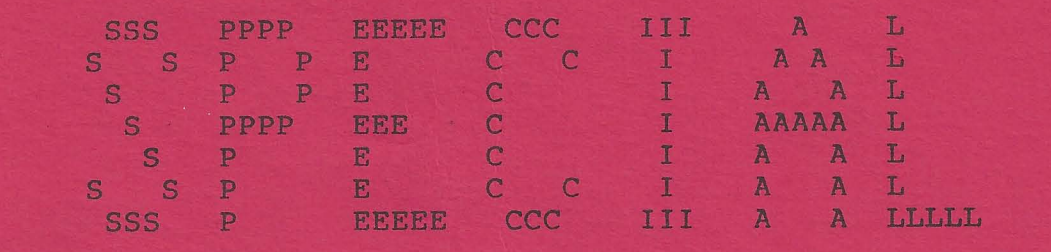
The picture editor is joystick controlled. You dip a paintbrush into one of four colors (the fourth color is black, for erasures) and draw by pressing the button while moving the stick. You can change the brightness or hue of the colors from the keyboard.

You can test the adventure at any time, and exit back to the development system by typing QUIT.

You can create a self-contained game disk by dumping parts of the playing mechanics onto the disk along with the rooms, objects, phrases, and pictures. The resulting disk

doesn't autoboot, however; it must be binary loaded (DOS option M, then start at address 5C1F).





++

PRINTERS

STAR

1	POWERTYPE	$399.00
1	TRACTOR FOR POWERTYPE	$49.00

MORROW

1	MP200 RS232 (demo)	$469.00

++

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